

Specification Data	
Job Name	
Type	
Catalog #	
Comments	

## PRODUCT OVERVIEW

The **TL7-B2** is an intelligent wireless lighting controller with exceptional fault tolerance and a multitude of features. Each TL7-B2 provides intelligent On/Off switching, dimming, highly accurate power metering, digital sensor input, and status monitoring of lighting fixtures.

## KEY FEATURES:

- Integrated Photocell
- NEMA/ANSI C136.41 7-pin Dimming Receptacle Support
- Power Monitoring
- Remote control and scheduling
- Flexible Dimming Controls
- Secure, over-the-air upgrades to support future enhancements
- Seamless integration into the SimplySnap lighting control system
- 24V DC Power for Motion Sensors



To learn more, call or visit:  
[synapsewireless.com](http://synapsewireless.com)  
 (877) 982-7888



### Includes Photocell, Power Monitoring, and External Sensor Input

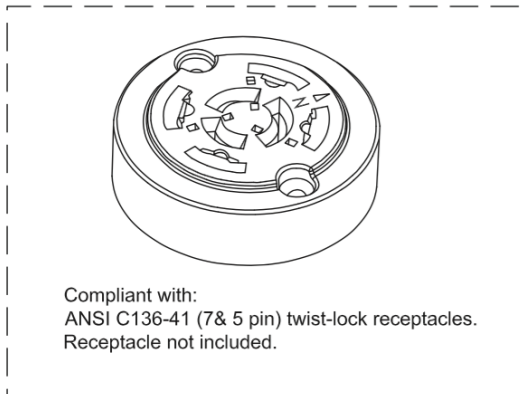
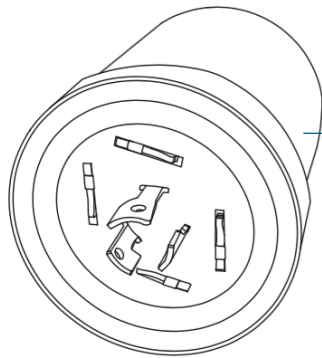
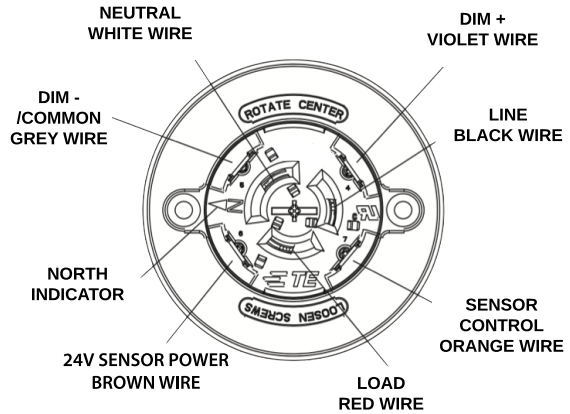
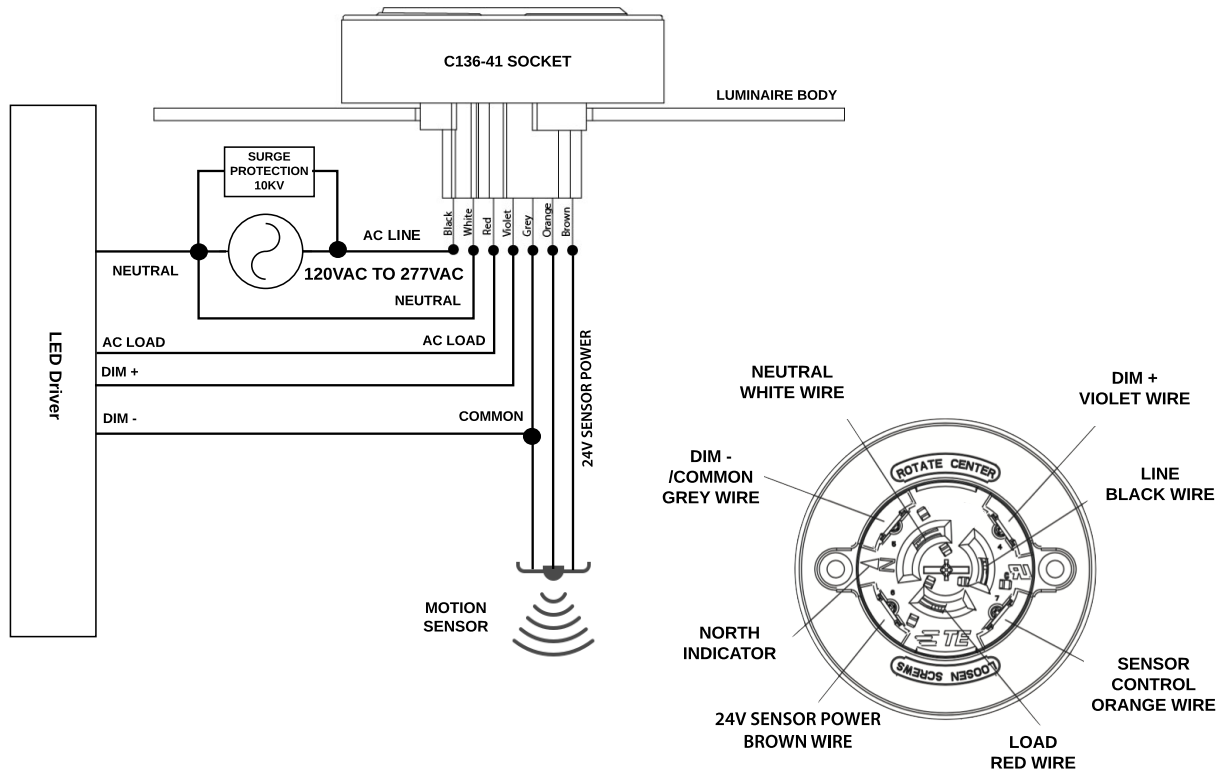
Product #	Description
TL7-B2	Low Voltage Twist-lock Wireless Lighting Control with Built in Photocell

<b>Dimensions</b>	3.5" W x 3.86" H (88.6 mm W x 98 mm H)
<b>Input Power<sup>1</sup></b>	110-277VAC +/- 10% (Max 305V), 60Hz
<b>Operating Environment</b>	-40°C to +70°C; 0% to 90% RH non-condensing; IP66
<b>Switched Output</b>	Default ON
<b>Load Rating</b>	5A @ 110-277VAC (+/- 10%)
<b>Surge Rating</b>	6kV
<b>Dimming Control</b>	1-10V
<b>Dimming Output</b>	1-10V, 20mA
<b>Radio</b>	SNAP 2.4GHz; 802.15.4 +20dBm Transmit power -104dBm Receive Sensitivity
<b>Sensor Input</b>	24VDC
<b>Sensor Power</b>	24V, 20mA
<b>Power Monitoring<sup>2</sup></b>	2% accuracy
<b>Power Readings</b>	Voltage, Watts
<b>Certifications</b>	FCC, IC, cULus, DLC, RoHS
<b>Warranty<sup>3</sup></b>	5 Years

#### Footnotes:

1. Phase to Phase power is supported, however the controller only switches one phase.
2. 2% accuracy down to 100 Watts
3. See [www.synapsewireless.com/warranty](http://www.synapsewireless.com/warranty) for warranty terms

# TL7-B2 WIRING DIAGRAMS



LED Color	Status
Blue	Not yet added to SimplySnap
Green	Normal Operation
Red	Communication Lost

LIGHTING CONTROLLER